XXV General Meeting

of the

American Electrochemical Society

Held in

New York City,

April 16, 17, 18, 1914.

LOCAL COMMITTEE.

CHAIRMEN.

LAWRENCE ADDICKS, Chrome, N. J., *Excursion Committee.*

MRS. LEO BAEKELAND, Yonkers-on-Hudson, N. Y., *Ladies' Committee.*

H. B. COHO, New York City (111 Broadway), *Smoker Committee.*

JACOB HASSLACHER, New York City (100 William St.), *Finance Committee.*

J. M. MUIR, New York City (239 W. 39th St.), *Publication Committee.*

GEO. C. STONE, New York City (55 Wall St.), *Dinner Committee.*

ARTHUR L. WALKER, New York City (Columbia University), *Reception Committee.*

GENERAL COMMITTEE.

Chas. H. Aldrich, Perth Amboy, N. J.
H. H. Alexander, Maurer, N. J.
Dr. Leo Baekeland, Yonkers-on-Hudson, N. Y.
Dr. Chas. Baskerville, New York City.
Walker Bowman, New York City.
Dav. H. Browne, New York City.
Dr. C. F. Chandler, New York City.
Wm. A. Cowan, Brooklyn, N. Y.
Alfred H. Cowles, Sewaren, N. J.
Dr. C. A. Doremus, New York City.
Arthur S. Dwight, New York City.
Dr. A. H. Elliot, New York City.
E. F. Eurich, New York City.
Dr. Colin G. Fink, Harrison, N. J.
Dr. Hans Foerstering, Perth Amboy, N. J.
Prof. Albert F. Ganz, Hoboken, N. J.
Dr. F. H. Hirschland, New York City.
Walter R. Ingalls, New York City.
Dr. Edw. Keller, Perth Amboy, N. J.
Dr. Edw. F. Kern, New York City.
Dr. Geo. F. Kunz, New York City.
Dr. A. R. Ledoux, New York City.
Dr. Chas. F. McKenna, New York City.
Willard S. Morse, New York City.
Dr. Wm. H. Nichols, New York City.
Frank A. Pattison, New York City.
Herbert Phillip, Perth Amboy, N. J.
Francis R. Pyne, Chrome, N. J.
Edward Randolph, Newark, N. J.
John J. Riker, New York City.
Dr. Franz Roessler, Perth Amboy, N. J.
E. A. C. Smith, New York City.
Elmer A. Sperry, South Brooklyn, N. Y.
Jokichi Takamine, New York City.
Maximilian Toch, New York City.
Prof. Samuel Tucker, New York City.
Abr. Van Winkle, Newark, N. J.
Dr. R. von Foregger, New York City.
Dr. Edward Weston, Newark, N. J.

GENERAL INFORMATION.

PLACES OF MEETING.

Headquarters will be at the Chemists' Club, in the Chemists' Building, 52 East 41st Street, New York City.

Technical Sessions will be held on Thursday, April 16, in Rumford Hall, at the Chemists' Building; on Saturday, April 18, at Earl Hall, Columbia University.

There will be the Presidential Address, followed by a Smoker, on Thursday evening, April 16, in Rumford Hall; and a Dinner-dance on Saturday evening, April 18, also in the Chemists' Building.

On Friday, April 17, there will be an all-day excursion, by steamboat, around New York Harbor and Staten Island, combined with visits to several metallurgical plants. For further information consult the detailed program.

The arrangements for the meeting are in the hands of the New York Section of the Society, and the Smoker on Thursday night, and the Steamer Excursion on Friday, are complimentary to the Society and its guests, tendered by the New York Section.

REGISTRATION.

A registrar will be on hand in the lobby of the Chemists' Club, commencing Wednesday,

April 15, at 6 P.M., to receive arriving members and guests, distribute badges and programs, and to give other information. Members are requested to Register as early as possible, recording their New York addresses as well as home addresses.

Guests may be introduced by Members and may attend the technical sessions, and enjoy such further privileges as are extended to them by the Local Committee or the President or Secretary.

Applicants for admission to the Society who have deposited their entrance fee with the Secretary may register, and wear the badges of members, and enjoy the privileges of members at the meeting.

EXCURSION AND VISITS.

On Friday, April 17, there will be an all-day Excursion around New York Harbor and Staten Island, combined with visits to the plants of the American Smelting and Refining Company, the United Lead Company, and the Waclark Wire Company. The steamboat—the Isabell of the Bridgeport Line—leaves West 23rd Street at 9:30 A.M., stopping at The Battery at 9:45 A.M., proceeding thence to the Forts at the Narrows and through the Kills to Perth Amboy. Lunch will be provided. On the return trip, the steamer arrives at The Battery at 5 P.M. and at West 23rd Street at 5:30 P.M.

Ladies accompanying members are invited to participate in the Excursion. For other

guests, application for invitations should be made to Excursion Committee or the Secretary.

SOCIAL FEATURES.

On Thursday evening, after the Presidential Address, to which ladies are invited, the New York Section invites members and guests to a Smoker, in Rumford Hall.

On Saturday evening, at 7 P.M., a Subscription Dinner will be given at the Chemists' Building, followed by a Dance. Price of the Subscription, $3.00 per person. Those desiring to participate will aid the committee in charge by filling out the blank form to be found at the end of this program, and mailing it, with check, to the chairman of the dinner committee. Place at the dinner cannot be guaranteed on applications received after April 16, the first day of the meeting.

ENTERTAINMENT FOR LADIES.

Thursday, 4 P.M. Informal Reception at the Chemists' Club. Tea served.

8 P.M. Theater party, "Too Many Cooks." Cabs will be provided, but visitors will purchase their own tickets.

Friday: All day Excursion for members; ladies cordially invited.

Saturday, 10 A.M. Visit to the Morgan Picture Collection at the Metropolitan Art Museum.

4:30 P.M. Tea at the Plaza Hotel.

7:00 P.M. Subscription Dinner-dance at the Chemists' Club. Ladies welcome.

Ladies are also cordially invited to attend the technical sessions.

PROGRAM.

WEDNESDAY, APRIL 15, 1914.

6:00 P.M. Registration begins in the lobby of the Chemists' Club, 52 East 41st Street.

7:30 P.M. Meeting of the Publication Committee, at the Chemists' Club.

8:30 P.M. Meeting of the Board of Directors, at the Chemists' Club.

THURSDAY, APRIL 16, 1914.

9:00 A.M. **Annual Business Meeting of the Society,** in Rumford Hall, Chemists' Building.

Reports of the Board of Directors, Announcement of the Annual Election, Miscellaneous Business.

Symposium on Power Problems in Electrochemistry.

Characteristics of Electrical Energy as Affecting Chemical Industries: C. P. Steinmetz.

Efficiency of Power Transmission vs. Utilization in Local Electrochemical Industries: P. Sothman.

Some Economies in the Use of Electric Furnaces: F. A. J. FitzGerald.

NOTES.

(Numbers prefixed to papers on program indicate papers printed in advance, numbered correspondingly.)

Power for Electric Furnace Work: W. S. Horry.

(3) The Power Problem in the Electrolytic Deposition of Metals: L. Addicks.

(6) The Power Problem in the Electrolytic Deposition of Metals: H. E. Longwell.

(4) Sources of Direct Current for Electrochemical Processes: F. D. Newbury.

GENERAL DISCUSSION.

Lunch may be had, table d' hôte or à la carte, in the dining room of the Chemists' Club.

2:00 P.M. Rumford Hall, Chemists' Building.

Experimental Lecture.

Electrolytic Flames: W. D. Bancroft.

Reading and Discussion of Papers.

(12) Electric Steel Castings: C. A. Hansen.

(17) Electric Furnaces for Steel Making: E. B. Clarke.

(5) Improvements in the Metallurgy of Zinc: G. C. Stone.

(9) Electric Zinc Smelting: W. R. Ingalls.

(21) Advantages of Southeastern Alaska for Hydro-Electrochemical Industries: W. P. Lass.

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8:00 P.M. Rumford Hall, Chemists' Building.

Presidential Address.

Some Economic and Aesthetic Aspects of Electro-Chemistry: President E. F. Roeber.

8:45 P.M. Smoker, on invitation of the New York Section.

FRIDAY, APRIL 17, 1914.

9:30 A.M. The steamer Isabell of the Bridgeport Line leaves the pier at West 23rd Street for a trip around New York Harbor. A stop will be made for passengers at the Battery at 9:45 A.M. Stops will be made at the plants of the American Smelting and Refining Co., United Lead Co., and Waclark Wire Co. Lunch will be provided. On the return trip, the steamer will arrive at the Battery at 5:00 P.M. and at West 23rd Street at 5:30 P.M.

Evening. Nothing has been scheduled for Friday evening, allowing members and guests to spend this evening as they may desire.

SATURDAY, APRIL 18, 1914.

9:00 A.M. Earl Hall, Columbia University. (To reach Columbia University, take the Subway to 116th Street. Earl Hall is directly west of the Library.)

The American Electro-platers Society has been invited to attend the Saturday sessions, and to participate in the discussions.

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Lecture.

Progress in Leaching and Electrolytic Treatment of Copper Ores in South America: E. A. C. Smith.

Reading and Discussion of Papers.

(22) Hydroelectric Treatment of Copper Ores: R. R. Goodrich.

(19) Leaching of Copper Tailings: R. Gahl.

(8) Metal Inventory in an Electrolytic Copper Refinery: R. W. Deacon.

(25) Electrolytic Zinc: J. W. Richards.

(13) Addition Agents in the Deposition of Zinc from a Solution of Zinc Sulphate: O. P. Watts and A. C. Shape.

(1 and 2) Electrodeposition of Cadmium: F. C. Mathers and H. M. Marble.

(7) Electrodeposition of Nickel: C. W. Bennett, H. C. Kenny and R. P. Dugliss.

(24) Electrolytic Deposition of Brass on a Rotating Cathode: C. W. Bennett and A. W. Davison.

(20) A New Method for the Determination of Free Cyanide in Electroplating Solutions: G. E. F. Lundell.

Lunch may be had, à la carte, in the Columbia University Commons.

NOTES.

2:00 P.M. Earl Hall, Columbia University.

Reading and Discussion of Papers.

Electric Conduction at High Temperatures and Methods of Measurement: E. F. Northrup (An Experimental Lecture).

(18) Laboratory Notes on Some Electrical Properties of Silver Sulphide: F. A. J. FitzGerald.

(11) Polarization Single Potentials: C. N. Hitchcock.

(14) New Cell Arrangements for Direct Determination of the Free Energy: R. Beutner.

(23) A New Railway Track Cell: E. L. Marshall.

(16) Experiments on White Lead: R. S. Owens.

(15) A Microscopic Study of Electrolytic Iron: O. W. Storey.

(10) The Effect of Addition Agents in the Electrodeposition of Iron: O. P. Watts and M. H. Li.

7:00 P.M. Rumford Hall, Chemists' Building. **Subscription Dinner,** followed by Dancing. (Blank form for sending subscription is attached at the end of this program, page 15.)

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NOTES.

XXVth General Meeting of the American Electrochemical Society.

MR. G. C. STONE,

Chairman Dinner Committee,

55 Wall Street, New York City.

Dear Sir:

I enclose remittance of.....in payment for.....tickets for the Subscription Dinner, Saturday evening, April 18, 1914, at $3.00 each.

Names of persons using the tickets. { .....
.....
....

(Tickets will be delivered by the Registrar, at the Meeting.)

OFFICERS OF THE SOCIETY.

President.

E. F. Roeber.

Past-Presidents.

W. R. Whitney, W. Lash Miller.

Vice-Presidents.

F. A. Lidbury, C. F. Burgess,
Edw. R. Taylor, C. P. Townsend,
L. H. Baekeland, S. A. Tucker.

Managers.

W. D. Bancroft, J. W. Brown.
Carl Hering, C. G. Schluederberg,
E. G. Acheson, L. Addicks,
F. A. J. FitzGerald, L. E. Saunders,
L. Kahlenberg.

Treasurer.

Pedro G. Salom.

Secretary.

Jos. W. Richards, Lehigh University,
South Bethlehem, Pa.

LOCAL SECTIONS OF THE SOCIETY.

Wisconsin Section (Madison, Wis.).
Prof. C. F. Burgess, Chairman, University of Wisconsin.
Dr. O. P. Watts, Secretary, University of Wisconsin.
Philadelphia Section.
Carl Hering, Chairman.
S. S. Sadtler, Secretary, 39 S. 10th St., Philadelphia.
New York Section.
Lawrence Addicks, Chairman.
H. B. Coho, Secretary-Treasurer, New York City.
Chicago Section.
L. L. Summers, Chairman, Chicago, Ill.
A. B. Marvin, Secretary, Marquette Bldg., Chicago.
Pennsylvania State College Section.
C. A. Walter, Chairman, State College, Pa.
P. E. Kern, Secretary, State College, Pa.
Pittsburgh Section.
C. G. Schluederberg, Chairman, Pittsburgh, Pa.
W. W. Clark, Secretary-Treasurer, Bridgeville, Pa.

ADMISSION AND DUES.

Entrance Fee, $5.00. Yearly Dues, $5.00. Application blanks and any other information may be obtained from the Secretary. Each member receives the Transactions of the Society, containing the papers and discussions of the General Meetings of the Society, and also, at present, the Transactions of the Faraday Society.